

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Cyril Cabral, Jr., et al.

Application No.: Not Yet Assigned

Confirmation No.:

Filed: Concurrently Herewith

Art Unit: N/A

For: ELECTROPLATED CoWP COMPOSITE
STRUCTURES AS COPPER BARRIER
LAYERS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

Copies of the cited U.S. patent references are not enclosed as the above-mentioned patent application was filed after June 30, 2003.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information

Application No.: Not Yet Assigned

Docket No.: 20140-00308-US1

as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 50-0510, under Order No. 20140-00308-US1. A duplicate copy of this paper is enclosed.

Dated: 11-18-03

Respectfully submitted,

By

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Cyril Cabral, Jr. et al.
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	YOR920030287US1(20140-00308)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US-2003/0075808	04-24-2003	Inoue	
	AB	US-6342733	01-29-2002	Hu, et al.	
	AC	US-6573606	06-03-2003	Sambucetti, et al.	
	AD	US-6528409	03-04-2003	Lopatin, et al.	
	AE	US-6323128	11-27-2001	Sambucetti, et al.	
	AF	US-2003/0010645	01-16-2003	Ting, et al.	
	AG	US-5695810	12-09-1997	Dubin, et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	CA	A. KOHN, et al., "Characterization of electroless deposited Co(W,P) thin films for encapsulation of copper metallization" Materials Science and Engineering A302 (2001) pages 18-25		
	CB	C.-K. HU, et al., "Reduced electromigration of Cu wires by surface coating" IBM T.J. Watson Research Center, Yorktown Heights, New York		
	CC	P.L. CAVALLOTTI, et al., "Microelectrodeposition of cobalt and its alloys" Proceedings AESF SUR/FIN Annual International Technical Conference, 1999, pages 325-335		
	CD	C.-K. HU, et al., "Electromigration in On-Chip Single/Dual Damascene Cu Interconnections" Journal of the Electrochemical Society, Vol. 149, No. 7, pages 408-415, 2002		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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